

Appl. No. 09/913,874
Amdt. dated March 9, 2004
Reply to Final Office Action of December 9, 2003

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claim 1 (currently amended): An isolated enzyme that specifically releases an amino acid having a glydated α -amino group from a glydated protein or a glydated peptide, wherein the enzyme is derived from *Corynebacterium ureolyticum* KDK1002 (FERM P-17135) or *Pseudomonas alcaligenes* KDK1001 (FERM P-17133).

Claim 2-5 (canceled)

Claim 6 (previously presented): An enzyme according to claim 1, wherein the amino acid having a glydated α -amino group to be released is valine having a glydated α -amino group.

Claim 7 (currently amended): A method of determining a glydated protein or a glydated peptide comprising:

degrading a glydated protein or a glydated peptide with an enzyme to give a degradation product;

causing a redox reaction between the degradation product and a fructosyl amino acid oxidase; and

determining the redox reaction so as to determine the amount of the glydated protein or the glydated peptide,

wherein an enzyme according to claim 1 is used as the enzyme is an isolated enzyme derived from *Corynebacterium ureolyticum* KDK1002 (FERM P-17135) or *Pseudomonas alcaligenes* KDK1001 (FERM P-17133) that releases an amino acid having a glydated α -amino group from a glydated protein or a glydated peptide.

Claim 8 (original): A method according to claim 7, wherein the glydated protein to be determined is glydated hemoglobin.

Claim 9 (withdrawn): A kit for determining a glydated protein or a glydated peptide comprising:

a protease;

a fructosyl amino acid oxidase;

a peroxidase; and

a substrate that is oxidized through a reaction with the peroxidase,
wherein the protease comprises an enzyme according to claim 1.

Claims 10-15 (canceled)